

Claims

1. Deep rolling head of a deep rolling tool for deep rolling radii or recesses on the main and lifting bearing journals of crankshafts with a housing in which one or two laterally interspaced deep rolling rollers are rotationally guided in a loose manner and with little play in two roller cages and in which the roller cages are fastened to supports bearing the roller cages on their faces oriented away from the deep rolling rollers and at the same time guiding them laterally, characterized in that the housing (2) is provided at each of the two ends of its face (3) oriented towards the crankshaft (21) with a projection (11, 12) for the support by each of one of the two roller cages (5, 6) and in that a fastening and guiding element (15) is provided for the roller cages (5, 6) which engages inside each roller cage (5, 6) and can be attached to the projection (11, 12) of the housing (2).
2. Deep rolling roller as in claim 1, characterized in that the fastening element is in form of a support (15) engaging inside a longitudinal groove (18) of the respective roller cage (5, 6) and is provided on its underside (3) oriented toward the crankshaft (21).
3. Deep rolling roller head as in one of the claims 1 or 2, characterized in that a spacer (20, 23) is installed between the projection (11, 12) of the housing (2) and the face (10) of the roller cage (5, 6) supported on it.
4. Deep rolling roller head as in claim 3, characterized in that the spacer (23) can be displaced in the direction of the adjoining roller cage (5).

5. Deep rolling roller head as in claim 4, characterized in that the position of the spacer (23) can be fixed.